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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,452	02/04/2004	Ernest John Chenery		2963
. 75	90 11/28/2005		EXAMINER	
Steven R. Deam			LOPEZ, FRANK D	
3908 Fourier Di Fort Wayne, IN			ART UNIT	PAPER NUMBER
			3745	
	•		DATE MAILED: 11/28/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Υ	انبكه
	Application No.	Applicant(s)	
	10/771,452	CHENERY ET AL.	
Office Action Summary	Examiner	Art Unit	
	F. Daniel Lopez	3745	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MOI atute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on _			
2a) This action is FINAL . 2b) ⊠ 7	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal mat	ters, prosecution as to the merits is	;
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.I). 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1 and 2 is/are pending in the applied 4a) Of the above claim(s) is/are with the state of the above claim(s) is/are allowed. 5) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	drawn from consideration.		
Application Papers			
9)☑ The specification is objected to by the Exam 10)☑ The drawing(s) filed on 2/4/04 is/are: a)☐ a Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11)☐ The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeya rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d	i).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received in A priority documents have beer reau (PCT Rule 17.2(a)).	application No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date		nformal Patent Application (PTO-152)	

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Drawings

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The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "22" (fig 2) and "11" (fig 1) have both been used to designate the mass.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: on page 8 (beginning "Detailed Description of the Preferred Embodiment") line 13-14 "mass in communication with the armature (11)" should be --mass (11) in communication with the armature--; line 20 "seal on a hammer (16)" should be --seal (16) on a hammer--; on page 9 line 11 "gas released from the valve (24)" should be -- gas (24) released from the valve--, to agree with the drawings; and throughout the specification "reservoir" (e.g. page 8 line 10) should be --chamber--. Appropriate correction is required.

Claim Rejections - 35 USC § 112

Claims 1 and 2 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited.

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In claims 1 and 2 each new section should start with a small letter, not a capital letter (e.g. "A" claim 1 line 4), since the claim is only one sentence long. In claim 1 line 4 "gas reservoirs" and claim 2 line 10 "gas-containing reservoir" should be --gas chamber-, since the air in not stored in the chamber.

In claim 2 line 1 "ram device", line 5 "ram", line 6 "hammer" and line 15 "ram armature" appear to be the same element, and so should only have one word for it. In claim 2 line 11 "membrane" should be –piston--, to agree with the disclosure. In claim 2 last line ";" should be --.--, since a sentence ends with a period.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 1 and 2 are rejected under 35 U.S.C. § 103 as being unpatentable over Cho in view of Benson. Cho discloses a fluid apparatus comprising a ram (including 38) in a cylinder (28, reservoir) controlling a gate valve (20), wherein the ram is biased by a spring (48) to move the valve to a closed position (fig 1) and charged with fluid through an input port (46) to move the valve to an open position; wherein the gate valve is designed to allow (exhaust) a small amount of flow back at the ram, when opened, biasing the ram and valve toward the closed position; wherein the ram has a diaphragm type seal (44) connected to a piston (44) and a second seal (40) isolating the spring from the gate valve; but does not disclose that there is a quick evacuation valve to direct air flow through the inlet port, into the cylinder and out without pressure resistance; or that the piston has a u-shaped seal.

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Benson teaches, for a fluid apparatus comprising a ram (including 74) in a cylinder (55, reservoir) controlling a gate valve (30), wherein the ram is biased by a spring (88) to move the valve to an open position (fig 2) and charged with fluid through an input port (59) to move the valve to a closed position; wherein the ram has a seal connected to a piston (58) and a second seal (95) isolating the spring from the gate valve; that there is a quick evacuation valve (63), for the purpose of directing air flow through the inlet port, into the cylinder and out without pressure resistance; and that the seal of the piston is a u- shaped seal.

Since Cho and Benson are both from the same field of endeavor, the purpose disclosed by Benson would have been recognized in the pertinent art of Cho. It would have been obvious at the time the invention was made to one having ordinary skill in the art to include a quick evacuation valve, as taught by Benson, for the purpose of directing air flow through the inlet port of Cho, into the cylinder and out without pressure resistance.

Since the seals of Cho and Benson are functionally equivalent in the piston art, it would have been obvious at the time the invention was made to one having ordinary skill in the art to replace the diaphragm type seal of Cho with a u- shaped seal, with corresponding changes in the piston, as taught by Benson, as a matter of engineering expediency.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dan Lopez whose telephone number is 571-272-4821. The examiner can normally be reached on Monday-Thursday from 6:15 AM -3:45 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Look, can be reached on 571-272-4820. The fax number for this group is 571-273-8300. Any inquiry of a general nature should be directed to the Help Desk, whose telephone number is 1-800-PTO-9199.

F. Daniel Lopez
Primary Examiner
Art Unit 3745
November 22, 2005